Please provide the following information, and submit to the NOAA DM Plan Repository.

Reference to Master DM Plan (if applicable)

As stated in Section IV, Requirement 1.3, DM Plans may be hierarchical. If this DM Plan inherits provisions from a higher-level DM Plan already submitted to the Repository, then this more-specific Plan only needs to provide information that differs from what was provided in the Master DM Plan.

URL of higher-level DM Plan (if any) as submitted to DM Plan Repository:

1. General Description of Data to be Managed

1.1. Name of the Data, data collection Project, or data-producing Program:
Deep-Sea Stony Coral Habitat Suitability

1.2. Summary description of the data:
Deep-sea corals, also known as cold water corals, create complex communities that provide habitat for a variety of invertebrate and fish species, such as grouper, snapper, and sea bass. The map depicts the relative likelihood of finding suitable habitat for stony corals at a given location and is a prediction based on a statistical model relating several environmental characteristics to the presence of stony corals using observations of stony corals. Stony coral are the primary reef-building corals and produce hard skeletons made of aragonite, a crystal form of calcium carbonate. Please also reference the "Deep-Sea Soft Coral Habitat Suitability" layer. Predictions from these habitat suitability models can be used to support conservation and management of deep-sea corals and to assist with targeting areas for mapping and exploration.

1.3. Is this a one-time data collection, or an ongoing series of measurements?
One-time data collection

1.4. Actual or planned temporal coverage of the data:
2017-09

1.5. Actual or planned geographic coverage of the data:
W: -96.723789, E: -64.995977, N: 44.641853, S: 23.580831

1.6. Type(s) of data:
(e.g., digital numeric data, imagery, photographs, video, audio, database, tabular data, etc.)

1.7. Data collection method(s):
(e.g., satellite, airplane, unmanned aerial system, radar, weather station, moored buoy, research vessel, autonomous underwater vehicle, animal tagging, manual surveys, enforcement activities, numerical model, etc.)

1.8. If data are from a NOAA Observing System of Record, indicate name of system:

1.8.1. If data are from another observing system, please specify:

2. Point of Contact for this Data Management Plan (author or maintainer)

2.1. Name:
NOAA Office for Coastal Management (NOAA/OCM)

2.2. Title:
Metadata Contact

2.3. Affiliation or facility:
NOAA Office for Coastal Management (NOAA/OCM)

2.4. E-mail address:
coastal.info@noaa.gov

2.5. Phone number:
(843) 740-1202

3. Responsible Party for Data Management
Program Managers, or their designee, shall be responsible for assuring the proper management of the data produced by their Program. Please indicate the responsible party below.

3.1. Name:

3.2. Title:
Data Steward

4. Resources
Programs must identify resources within their own budget for managing the data they produce.

4.1. Have resources for management of these data been identified?

4.2. Approximate percentage of the budget for these data devoted to data management (specify percentage or "unknown"):

5. Data Lineage and Quality
NOAA has issued Information Quality Guidelines for ensuring and maximizing the quality, objectivity, utility, and integrity of information which it disseminates.

5.1. Processing workflow of the data from collection or acquisition to making it publicly accessible
(describe or provide URL of description):
Process Steps:

- 2017-05-01 00:00:00 - + Download the 3 zip files from https://coastalscience.noaa.gov/projects/detail?key=35: DSC_PredictiveModeling_US_Northeast_MidAtlantic.zip DSC_PredictiveModeling_US_Southeast.zip DSC_PredictiveModeling_US_Gulf_of_Mexico.zip + From each zip file, extract the ESRI_Grid folder from the Thresholded_Logistic_Outputs folders + For each location, separate rasters into soft and stony: GOM Soft GOM Stony SE Soft SE Stony NE Soft NE Stony ALCY LOPHPERT ALCY ENALPROF ALCY SCLER ALCYGORG MADRAC ALCYCALCAX LOPHPERT ALCYGORG SCLERCARYO ALCYNONGORG MADREP ALCYGORG MADROCUL ALCYNONGORG SCLERFLABELL ANTI SCLER ALCYHOLAX OCULSPP PENN BEBR SCLERFRAME ALCYNONGORG SCLERFRAME PENNSESS CALLO SCLERNONFRAME ANTI SCLERNONFRAME PENNSUBSESS ELLIS PENN STYL GORG HYPNO ISID PARA PLEX + Using the Raster Calculator, Average each of the 6 groupings into a new raster + Project each output into WGS 1984 Auxiliary Sphere + Mosaic to New Raster the 3 soft coral rasters and the 3 stony coral rasters using MEAN as the mosaic operator + Convert Raster to Polygon the soft coral raster and the stony coral raster, unchecking the box to simplify polygons + In each feature class, select features where gridcode = 0 and switch selection + Dissolve both feature classes on gridcode field, unchecking the box to create multipart features + Rename gridcode field to value
- 2017-08-29 00:00:00 - Working from data processed in May 2017: 1. Renamed value field to "predictedLikelihood" 2. Created Domain for predictedLikelihood field based on NCCOS documentation for Low (0-1), Medium-Low (1-2), Medium (2-5), High (6-9), and Very High (10) thresholded values. 3. Assigned Domain to predictedLikelihood field. 4. Updated cartography and legend based on these new descriptor values. 5. Created new layer file.

5.1.1. If data at different stages of the workflow, or products derived from these data, are subject to a separate data management plan, provide reference to other plan:

5.2. Quality control procedures employed (describe or provide URL of description):

6. Data Documentation

The EDMC Data Documentation Procedural Directive requires that NOAA data be well documented, specifies the use of ISO 19115 and related standards for documentation of new data, and provides links to resources and tools for metadata creation and validation.

6.1. Does metadata comply with EDMC Data Documentation directive?

No

6.1.1. If metadata are non-existent or non-compliant, please explain:

Missing/invalid information:
- 1.6. Type(s) of data
- 1.7. Data collection method(s)

- 3.1. Responsible Party for Data Management
- 4.1. Have resources for management of these data been identified?
- 4.2. Approximate percentage of the budget for these data devoted to data management
- 5.2. Quality control procedures employed
- 7.1. Do these data comply with the Data Access directive?
- 7.1.1. If data are not available or has limitations, has a Waiver been filed?
- 7.1.2. If there are limitations to data access, describe how data are protected
- 7.3. Data access methods or services offered
- 7.4. Approximate delay between data collection and dissemination
- 8.1. Actual or planned long-term data archive location
- 8.3. Approximate delay between data collection and submission to an archive facility
- 8.4. How will the data be protected from accidental or malicious modification or deletion prior to receipt by the archive?

6.2. Name of organization or facility providing metadata hosting:

NMFS Office of Science and Technology

6.2.1. If service is needed for metadata hosting, please indicate:

6.3. URL of metadata folder or data catalog, if known:

https://www.fisheries.noaa.gov/inport/item/48878

6.4. Process for producing and maintaining metadata

(describe or provide URL of description):

Metadata produced and maintained in accordance with the NOAA Data Documentation Procedural Directive: https://nosc.noaa.gov/EDMC/DAARWG/docs/EDMC_PD-Data_Documentation_v1.pdf

7. Data Access

NAO 212-15 states that access to environmental data may only be restricted when distribution is explicitly limited by law, regulation, policy (such as those applicable to personally identifiable information or protected critical infrastructure information or proprietary trade information) or by security requirements. The EDMC Data Access Procedural Directive contains specific guidance, recommends the use of open-standard, interoperable, non-proprietary web services, provides information about resources and tools to enable data access, and includes a Waiver to be submitted to justify any approach other than full, unrestricted public access.

7.1. Do these data comply with the Data Access directive?

7.1.1. If the data are not to be made available to the public at all, or with limitations, has a Waiver (Appendix A of Data Access directive) been filed?

7.1.2. If there are limitations to public data access, describe how data are protected

from unauthorized access or disclosure:

7.2. Name of organization of facility providing data access:
NOAA Office for Coastal Management (NOAA/OCM)

7.2.1. If data hosting service is needed, please indicate:

7.2.2. URL of data access service, if known:

7.3. Data access methods or services offered:

7.4. Approximate delay between data collection and dissemination:

7.4.1. If delay is longer than latency of automated processing, indicate under what authority data access is delayed:

8. Data Preservation and Protection

The NOAA Procedure for Scientific Records Appraisal and Archive Approval describes how to identify, appraise and decide what scientific records are to be preserved in a NOAA archive.

8.1. Actual or planned long-term data archive location:
(Specify NCEI-MD, NCEI-CO, NCEI-NC, NCEI-MS, World Data Center (WDC) facility, Other, To Be Determined, Unable to Archive, or No Archiving Intended)

8.1.1. If World Data Center or Other, specify:

8.1.2. If To Be Determined, Unable to Archive or No Archiving Intended, explain:

8.2. Data storage facility prior to being sent to an archive facility (if any):
Office for Coastal Management - Charleston, SC

8.3. Approximate delay between data collection and submission to an archive facility:

8.4. How will the data be protected from accidental or malicious modification or deletion prior to receipt by the archive?
Discuss data back-up, disaster recovery/contingency planning, and off-site data storage relevant to the data collection

9. Additional Line Office or Staff Office Questions

Line and Staff Offices may extend this template by inserting additional questions in this section.